

Sunday, June 10 (Aspen)		
6:00 – 7:30 p.m. Registration and Opening Reception		
Monday, June 11 (Mesa A and B)		
7:15 – 8:00 a.m. Registration and Coffee		
Welcoming Remarks Session Chair: Tonya Kuhl, LANSCE User Group Chair		
8:00 – 8:10	Welcoming Remarks	Kurt Schoenberg LANL, LANSCE User Facility Director
8:10 – 8:25	National Nuclear Security Administration Welcoming Remarks	TBA DOE/NNSA
The Future of LANSCE Session Chair: Kurt Schoenberg, LANL		
8:25 – 8:40	The Role of LANSCE to the Future of Science at Los Alamos National Laboratory	Anna Zurek LANL, Deputy Principal Associate Director for Science, Technology and Engineering
8:40 – 9:05	Materials Research at Los Alamos	Mark Bourke LANL, Group Leader Structure/Property Relations
9:05 – 9:30	LANSCE Refurbishment	Kevin Jones LANL, Division Leader Accelerator Operations and Technology
9:30 – 10:00	Break	
Selected Highlights Session Chair: Allen Hartford, LANL		
10:00 – 10:30	SNS-Initial Science and the Ramp Up to Power (invited)	Ian Anderson Oak Ridge National Laboratory
10:30 – 11:00	The Proposed Los Alamos Particle Accelerator Research Complex (L-PARC)	Kurt Schoenberg/Richard Sheffield Los Alamos National Laboratory
11:00 – 11:30	Lujan Center Status and Future in L-PARC	Alan Hurd LANL, LANSCE-LC Group Leader
11:30 – 12:00	Dynamical Studies in Quantum Systems Under the Collaboration Between Manuel Lujan, Jr. Neutron Scattering Center and KENS (invited)	Shinichi Itoh KEK
12:00 – 12:30	Studies of Polar and Catalytic Materials at NPDF in k and Real Space (invited)	Ram Seshadri University of California, Santa Barbara
12:30 – 1:30	Lunch	
Selected Highlights (continued) Session Chair: Yaron Danon, Rensselaer Polytechnic Institute		
1:30 – 2:00	The Nuclear Science Program at LANSCE	Steve Wender LANL, LANSCE-NS Group Leader

2:00 – 2:30	The Importance of LANSCE for Single-Event Effects Reliability Modeling for Commercial Semiconductors (invited)	Robert Baumann Texas Instruments
2:30 – 3:00	Using DANCE to Measure Nuclear Spins: First Results and Some Surprises (invited)	Paul Koehler Oak Ridge National Laboratory
3:00 – 3:30	Break	
LANSCE User Group Business Meeting Session Chair: Tonya Kuhl, University of California, Davis, LUG Executive Committee Chair		
3:30 – 3:40	Recognition of 2006 and 2007 LUG Executive Committees	Kurt Schoenberg LANL, LANSCE User Facility Director
3:40 – 3:50	Presentation of the 21st Louis Rosen Prize: Brad C. Bennett University of Tennessee, Knoxville Honorable Mention: Shannon McDaniel Los Alamos National Laboratory	Louis Rosen LANL Senior Fellow
3:50 – 5:15	LUG Business Meeting	Tonya Kuhl University of California, Davis LUG Executive Committee Chair
5:15 – 6:30	Poster Session and Reception	
Tuesday, June 12		
8:00 – 8:30 a.m. Coffee		
Parallel Sessions A: 8:30 – 10:10 Soft Materials (Mesa A) Session Chair: Tonya Kuhl, University of California, Davis		
8:30 – 8:50	Interfacial Mediated Diffusion, a Key to the Design of Future Fuel Cells: Neutron Reflectometry Study	Lilin He Clemson University
8:50 – 9:10	Polymer Brushes in Restricted Geometries	Dennis Mulder University of California, Davis
9:10 – 9:30	Probing Nano-Domains in Single Bilayer Bio-Membranes	Chad Miller University of California, Davis
9:30 – 9:50	Motive Mechanism of Cellular Motors During Movement Along Microtubules	Rex Hjelm Los Alamos National Laboratory
9:50 – 10:10	Lipid Membrane Templated Fibrillogensis of Alzheimer’s Disease Amyloid-Beta Protein	Eva Chi University of Chicago
Neutron Nuclear Science (Mesa B) Session Chair: Ron Nelson, LANL		
8:30 – 9:00	A Novel Device to Focus and Polarize Cold Neutron Beams (invited)	Gian Felcher Argonne National Laboratory
9:00 – 9:30	Status of the npdγ Experiment (invited)	Americo Salas-Bacci Los Alamos National Laboratory
9:30 – 9:50	Status and Experimental Highlights of the DANCE Detector	John Ullmann Los Alamos National Laboratory
9:50 – 10:10	Results for ^{151,153} Eu Neutron Capture Measured at LANSCE	Undraa Agvaanluvsan Lawrence Livermore National Laboratory
10:10 – 10:35	Break	

Parallel Sessions B: 10:35 – 12:05 Bioscience (Mesa A) Session Chair: Paul Langan, LANL		
10:35 – 11:05	Neutron Diffraction Structure of the E. coli DHFR-MTX Complex Provides Insights Into Protein Dynamics, Mode of Drug Binding and Solvent Structure (invited)	Brad Bennett (Rosen Prize Recipient) University of Tennessee,
11:05 – 11:25	Neutron Reflection Reveals a Conformational Change of Membrane-Bound Diphtheria Toxin That Coincides With Deep Insertion	Michael Kent Sandia National Laboratories
11:25 – 11:45	Bacterial Toxin Assault on Lipid Membranes	Chad Miller University of California, Davis
11:45 – 12:05	Macromolecular Neutron Crystallography at PCS at LANSCE	Suzanne Fisher Los Alamos National Laboratory
Defense and Energy Research (Mesa B) Session Chair: Richard Sheffield, LANL		
10:35 – 11:05	Prompt Fission Neutron Studies Using FIGARO at WNR (invited)	Thierry Granier French Atomic Energy Commission
11:05 – 11:25	Review of LLNL-Led Neutron Capture Studies Using DANCE	Winifred Parker Lawrence Livermore National Laboratory
11:25 – 11:45	The ⁶ Li(n,α)t Reaction in the Few MeV Region: Cross Section and Distribution Measurements at LANSCE/WNR	Matthew Devlin Los Alamos National Laboratory
11:45 – 12:05	Fission Cross-Section Measurements in Support of the Global Nuclear Energy Partnership (GNEP)	Fredrik Tovesson Los Alamos National Laboratory
12:05 – 1:15	Lunch	
Parallel Sessions C: 1:15 – 3:05 Materials Science and Condensed Matter Research (Mesa A) Session Chair: James Rhyne, LANL		
1:15 – 1:45	Prisms, Lenses, and Interference Effects: Analogies Between Light and Neutrons (invited)	Roger Pynn Indiana University
1:45 – 2:05	Texture Memory in a NiTi Shape Memory Alloy	Bing Ye New Mexico Institute of Mining and Technology
2:05 – 2:25	Total Scattering and Nanoparticles	Thomas Proffen Los Alamos National Laboratory
2:25 – 2:45	Observation of Local Non-Centrosymmetry in Weakly Ferroelectric YCrO ₃	Anna Llobet Los Alamos National Laboratory
2:45 – 3:05	Peculiar (Non-Linear) Behavior in Rocks	Sven Vogel Los Alamos National Laboratory

Nuclear Physics (Mesa B) Session Chair: Stephen Wender, LANL		
1:15 – 1:45	Cross-Section Measurements with the LANL Lead Slowing Down Spectrometer (invited)	Yaron Danon Rensselaer Polytechnic Institute
1:45 – 2:05	DANCEing With the Stars: Measurements of Interest for Nuclear Astrophysics	Aaron Couture Los Alamos National Laboratory
2:05 – 2:25	Pre-Equilibrium Spin Distribution Effects on the Neutron Induced Reaction Cross Sections	Dugersuren Dashdorj North Carolina State University
2:25 – 2:45	Nuclear Structure Studies with GEANIE	Nikolaos Fotiadis Los Alamos National Laboratory
2:45 – 3:05	New Nuclear Science Capabilities for WNR	Rodney McCrady Los Alamos National Laboratory
3:05 – 3:30	Break	
Parallel Sessions D: 3:30 – 5:20		
Materials Science and Engineering (Mesa A) Session Chair: Alan Hurd, LANL		
3:30 – 4:00	New Techniques for the Investigation of Deformation Mechanisms in Flow of Fine-Grained Ice I _h (invited)	Shannon McDaniel (Rosen Prize Honorable Mention) Los Alamos National Laboratory
4:00 – 4:20	X-Ray and Neutron Diffraction Analysis of Nb-Doped and Undoped PZT 95/5	Mark Rodriguez Sandia National Laboratories
4:20 – 4:40	Deformation Behavior of Shape Memory NiTiFe at 92 K	Vinu Krishnan University of Central Florida
4:40 – 5:00	Texture, Strain and Phase Fraction Measurements During Tensile-Compressive Cycling of Superelastic NiTi	Shipeng Qiu University of Central Florida
Advanced Radiography and Fundamental Physics (Mesa B) Session Chair: Frank Merrill, LANL		
3:30 – 4:00	The Ultra-Cold Neutron Source at LANSCE (invited)	Mark Makela LANL, Subatomic Physics Group
4:00 – 4:30	Proton Radiography at LANSCE: Capabilities (invited)	Fesseha Mariam Los Alamos National Laboratory
4:30 – 4:50	Direct Shock Density Measurements Using Plate Impact and Proton Radiography	Paulo Rigg Los Alamos National Laboratory
4:50 – 5:10	Multiple Scatter Cosmic Ray Muon Tomography	J. Andrew Green Los Alamos National Laboratory
LANSCE User Group Meeting Reception and Banquet at Santa Fe Hilton (Ortiz)		
6:30 – 7:15	Reception	
7:30	Dinner	
8:15	Banquet Program	
	Guest Speaker: Alan Perelson, Theoretical Biology Group, Los Alamos National Laboratory	



June 10-12, 2007

Hilton Santa Fe Historic Plaza

LANSCE
Los Alamos Neutron Science Center